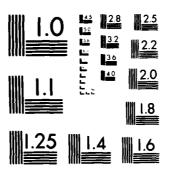
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No. 60

JULY - AUGUST 1982

Date of Report July 15, 1983

Vice Director for Foreign Intelligence Defense Intelligence Agency

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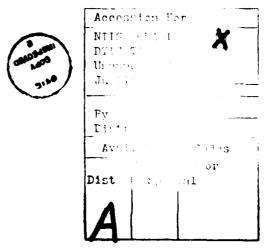
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## Introduction

This bibliography has been compiled under an interagency agreement as a continuing effort to document current Soviet-bloc developments in the quantum electronics field. The period covered is July-August 1982, and includes all significant laser-related articles received by us in that interval. The bulk of the entries come from the approximately 30 periodicals which are known to publish the most significant findings in Soviet laser technology. Citations from the Russian Reference Journals are also included. Laser items from the popular or semipopular press are generally omitted.

For convenience we have abbreviated frequently cited source names; a source abbreviations list and an author index are included. All sources cited with no parenthetical notation are available at the Library of Congress. A parenthetical entry (RZh, KL) indicates the secondary source in which the citation was found as a bibliographic entry or abstract, but for which the original source is not currently available at the Library. The authors' affiliations are indicated by the numbers in parentheses following the authors' names in the text and are listed in the Author Affiliations List. New affiliations are assigned a new number and are added to a cumulative list which includes all affiliations from 1969 to the present. Only those affiliations which appear in this issue are listed in this issue's Author Affiliations List.



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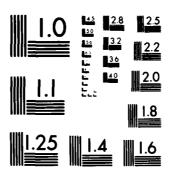
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## IV. SOURCE ABBREVIATIONS

АРН	(CIRC Codens) (APAHA)	Acta physica et Academiae scientiarum hungaricae
BAPS	(BAPTA)	Bulletin de l'Academie Polonaise des Sciences. Serie des Sciences Techniques
BAPS Phys	()	Bulletin de l'Academie Polonaise des Sciences. Serie des Sciences Physiques et Astrologiques
DAN Az	(DAZRA)	Akademiya nauk Azerbaydzhanskoy SSR. Doklady
DAN B	(DBLRA)	Akademiya nauk Belorusskoy SSR. Doklady
DAN SSSR	(DANKA)	Akademiya nauk SSSR. Doklady
DR	(DERUB)	Deponirovannyye rukopisi
EOM	(EOBMA)	Elektronnaya obrabotka materialov
ETP	(EXPPA)	Experimentelle Technik der Physik
FAi0	(IFAOA)	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana
FGiV	(FGVZA)	Fizika goreniya i vzryva
FiKhOM	(FKOMA)	Fizika i khimiya obrabotki materialov
FiKhS	(FKSTD)	Fizika i khimiya stekla
FTP	(FTPPA)	Fizika i tekhnika poluprovidnikov
FTT	(FTVTA)	Fizika tverdogo tela
IAN Arm	(IAAFA)	Akademiya nauk Armyanskoy SSR. Izvestiya. Fizika
IAN B	(VABFA)	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IAN Est	(ETFMB)	Akademiya nauk Estonskoy SSR. Izvestiya. Fizika, matematika
IAN Fiz	(IANFA)	Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya
IAN Uz	(IUZFA)	Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IT	(IZTEA)	Izmeritel'naya tekhnika

I-FZh	(INFZA)	Inzhenerno-fizicheskiy zhurnal
IVUZ Fiz	(IVUVA)	Izvestiya vysshikh uchebnykh zavedeniy. Fizika
IVUZ Priboro	(IVUBA)	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye
IVUZ Radioelek	tr (IVUZB)	Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika
<b>JM</b> 0	(JMKOA)	Jemna mechanika a optika
JS	()	Journal Signalaufzeichnungsmaterialen
KE	(KVEKA)	Kvantovaya elektronika
KhVE	(KHVKA)	Khimiya vysokikh energiy
KL	(KNLTA)	Knizhnaya letopis'
KLDVAD	()	Knizhnaya letopis'. Dopolnitel'nyy vypusk. Avtoreferaty dissertatsii
Kristal	(KRISA)	Kristallografiya
KSpF	(KRSFA)	Kratkiye soobshcheniya po fizike
MZhiG	(IMZGA)	Akademiya nauk SSR. Izvestiya. Mekhanika zhidkosti i gaza
NM	(IVNMA)	Akademiya nauk SSR. Izvestiya. Neorganicheskiye materialy
OiS	(OPSPA)	Optika i spektroskopiya
OMP	(OPMPA)	Optiko-mekhanicheskaya promyshlennost'
Otkr izobr	(OIPOB)	Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki
Poverkh	()	Poverkhnost'. Fizika, khimiya, mekhanika
PSS	(PSSAB) (PSSBB)	Physica Status Solidi (A). Applied Research (B). Basic Research
PTE	(PRTEA)	Pribory i tekhnika eksperimenta
RiE	(RAELA)	Radiotekhnika i elektronika
RZhF	(RZFZA)	Referativnyy zhurnal. Fizika

RZhRadiot	(RZRAB)	Referativnyy zhurnal. Radiotekhnika
Sb1	sbornik	Defects in insulating crystals. International Conference, Riga, 18-23 May 1981. Proceedings. Riga, Berlin, publishing house not given, 1981.
Sb2		Kvantovaya elektronika, no. 22, Kiyev, Naukova dumka, 1982.
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Sb4		Vakuumnaya i gazorazryadnaya elektronika, Ryazan', 1981.
Sb5		Inzhektsionnaya gazovaya elektronika. Institut sil'notochnoy elektroniki SOAN. Novosibirsk, Nauka, 1982.
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Sb15		Second International Symposium: Ultrafast Phenomena Spektroskopy, Reinhardsbrunn, 30 Oct - 5 Nov 1980 (UPS-80), Proceedings. Vol. 1, Jena, year of publication not given.

Sb16	Wissenschaftliche Zeitschrift Pädagogischen Hochschule Karl Liebknecht. Potsdam, no. 5, 1981.
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Sb18	Funktsional'nyye mikroelektronnyye ustroystva i ikh elementy, no. 6, Taganrog, 1981. Deposit at VINITI, no. 1224-82, 18 Mar 1982.
Sb19	Primeneniye ortogonal'nykh metodov pri obrabotke signalov i analize sistem. Sverdlovsk, 1981.
Sb20	Fazovyye i chastotnyye radiotekhnicheskiye sistemy i ustroystva s tsifrovoy obrabotkoy. Krasnoyarsk, 1981.
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Sb29	Second International Symposium: Ultrafast Phenomena Spectroscopy, Reinhardsbrunn, 30 Oct - 5 Nov 1980. Proceedings. Vol. 2, Jena, year of publication not given.
Sb30	Vsesoyuznyy seminar "Eksitony v kristallakh. 15th. Chernovtsy, 11-16 May 1981. Trudy, part 1. Deposit at VINITI, no. 2561-82, 24 May 1982.

Sb31		Prikladnaya yadernaya spektroskopiya, no. 11, Moskva, 1982.
Sb 32		Zentralinstitut fur Kernforshchung Rossendorf bei Dresden, no. 443, 1981.
SCF	(SCEFA)	Studii si cercetari de fizica
ТКіТ	(TKTEA)	Tekhnika kino i televideniya
Trl	trudy	Fizicheskiy institut AN SSSR. Trudy, no. 136, 1982.
Tr2		Moskovskiy energeticheskiy institut. Trudy, no. 571, 1982.
Tr3		Moskovskiy energeticheskiy institut. Trudy, no. 567, 1982.
Tr4		Leningradskiy elektrotekhnicheskiy institut. Izvestiya, no. 290, 1981.
Tr5		Glavnaya geofizicheskaya observatoriya. Trudy, no. 450, 1982.
TVT	(TVYTA)	Teplofizika vysokikh temperatur
UFZh	(UFIZA)	Ukrainskiy fizicheskiy zhurnal
VMU	(VMUFA)	Moskovskiy universitet. Vestnik. Fizika, astronomiya
ZhETF	(ZETFA)	Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhETF P	(ZEPRA)	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhFKh	(ZFKHA)	Zhurnal fizicheskoy khimii
ZhNiPFiK	(ZNPFA)	Zhurnal nauchnoy i prikladnoy fotografii i kinematografii
ZhNKh	(ZNOKA)	Zhurnal neorganichskoy khimii
ZhPMTF	(ZPMFA)	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki
ZhPS	(ZPSBA)	Zhurnal prikladnoy spektroskopii
ZhTF	(ZTEFA)	Zhurnal tekhnicheskoy fiziki
ZhTF P	(PZTFD)	Pis'ma v Zhurnal tekhnicheskoy fiziki
ZhVMMF	(ZVMFA)	Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki

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